

## **Agenda**

- 1. PGNiG Group & Polish Gas Market
- 2. PGNiG Segments
  - 3.1. Exploration and Production
  - 3.2. Trade and Storage
  - 3.3. Distribution
  - 3.4. Heat & Power
- 3.Capex, Debt
- 4. Appendix Financial Results for 1-3Q2013





## **PGNiG Group**

Exploration and Production

Leader gas and oil producer in Poland

- Total production volumes:
  - natural gas: 4.6 bcm
  - crude oil: 1.1 m tonnes (8 mboe)

Trade and Storage

Main gas importer to Poland and owner of gas storages

- 10.9 bcm of imported natgas
- app. 2 bcm of storage capacity
- 6.7 m of end-customers

Distribution

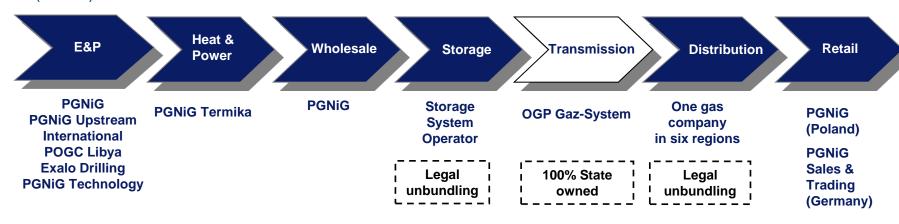
Robust domestic gas distribution business providing stable return

- 121 ths km of distribution network
- 9.9 bcm of distributed gas

Heat and Power

The largest heat producer in Poland – diversifying EBITDA stream

- Heat volume 40.2 PJ
- Electricity volume 3.8 TWh



Poland's no.1 integrated gas company



<sup>\*</sup> Initial operating data for 2013 – final data to be published on March 5th.

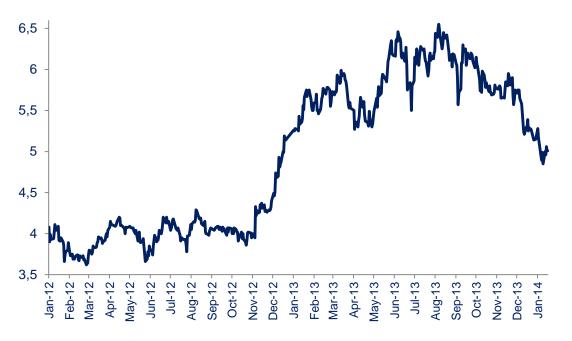
## **PGNiG's Shareholders**

Listed on WSE since Sep 2005

Market capitalization of PLN 29.6 bn (USD 9.6bn)\*

Significant share in WIG 20 and WIG30 index ~5%

#### **Stock performance since January 2012**



#### Shareholder Structure

- 72.4% State Treasury
- 27.6% Free float
- Average daily turnover: PLN 28m (USD 9.1m)

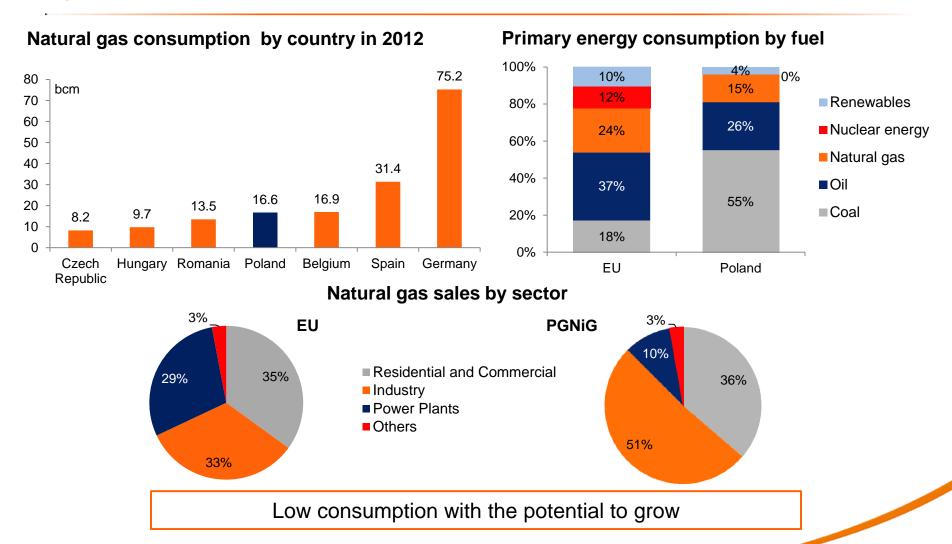
The 6th largest Polish company on the Warsaw Stock Exchange\*



<sup>\*</sup> In terms of market capitalization

<sup>\*\*</sup> PGNiG = 4.88 PLN and USD/PLN = 3.07 as on Jan.20th 2014

## **Gas Market in Poland**

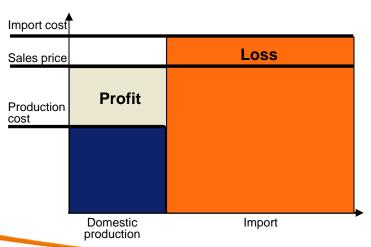




## **Tariff Model in Poland**

Type of activity	Regulatory mechanism
Direct sales	None
Wholesale trade: high- methane gas	Cost of imports + cost of production (including return on capital invested in E&P) + operating costs + margin
Storage	Cost + return on capital (11% WACC × PLN 2.7 bn RAB**)
Distribution	Cost + return on capital (7.9% WACC × PLN 12 bn RAB) – 170m gap

# Gas tariff set on blended cost of gas: Less costly domestic production supports imports



## Monthly average gas prices in European import contracts and PGNiG tariff price in January 2009 – October 2013\*



- Liberalization of gas market in Poland is being implemented, based on obligatory trading on gas exchange in Warsaw and gradual removal of tariffs for certain segments of industrial customers.
- The obligatory volume of high-mehtane gas to be traded on power exchange in Warsaw: 30% in 2013, 40% as of July 2014, and up to 55% as of January 2015



Source: German Federal Office of Economics and Export Control (BAFA), average border price in Germany

<sup>\*\*</sup> RAB = regulatory asset base



## **E&P** strategic aims

#### Intensify production from domestic conventional fields

- Deploy cutting-edge technologies to enhance the performance of fields in Poland
- Step-up the development of hydrocarbon resources in Poland
- Strengthen cooperation with industry partners in the exploration for hydrocarbons

#### Optimise activities focused on unconventional deposits

- Continue to prospect for unconventional gas (shale and tight gas)
- Share experience with other companies exploring for unconventional gas in Poland, enhance transfer of know-how
- Find experienced external partners to jointly explore for unconventional gas

#### **Expand the upstream business outside of Poland**

- Acquire oil producing fields in the North Sea region
- Investigate opportunities to acquire production assets in North America
- Shift the exploration focus to low-risk countries



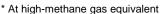
## **E&P Summary**

- PGNiG is a leader in production of gas and crude oil in Poland
- Natural gas production forecast\*:
  - 2013 4.62 bcm
  - 2014 4.63 bcm
- Crude oil production forecast\*\*:
  - 2013 1.1 m tonnes
  - 2014 1.2 m tonnes

- 2 trillion cm: initial estimate of shale gas resources in Poland
- PGNiG owns 15 standalone exploration licences with perspectives for shale gas, out of app. 100 granted in Poland
- Acreage of shale gas concessions 12 ths sq km
- 8 wells were drilled for shale gas by PGNiG until September 2013

- Strong resource potential in Poland
  - proved gas reserves 552 mboe (87.8 bcm)\*
  - proved oil reserves 134 mboe (18.3 m tonnes)
- Oil & gas concessions: 86 exploration/appraisal and 225 for mining
- 41 gas production facilities and 27 crude oil production facilities
- 2 215 producing wells
- RRR and R/P ratios average for years 2008-2012:
  - RRR = 0.6
  - R/P = 25.3

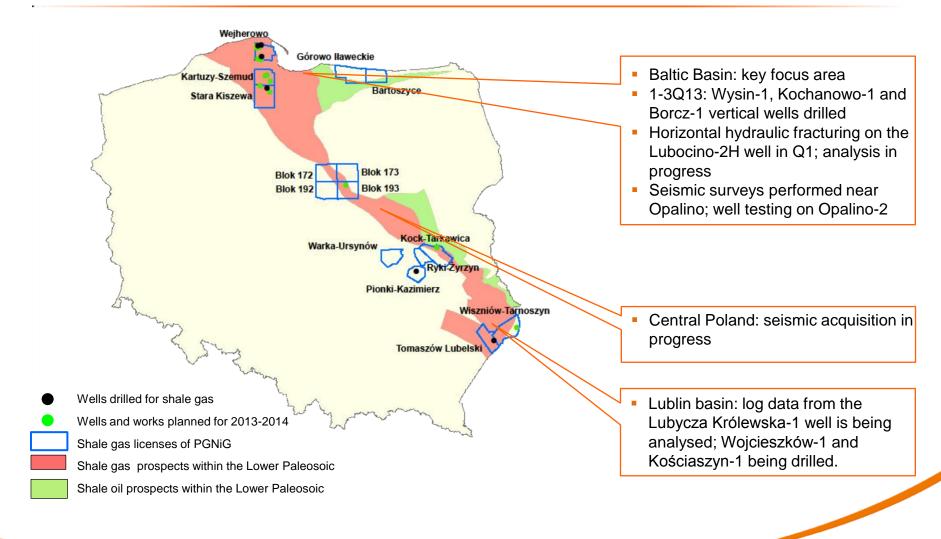




<sup>\*\*</sup> Including natural gas liquids



## **Unconventional gas – status for 1-3Q2013**





## **International E&P activities – Norway**



#### **Skarv (Norwegian Sea)**

Acquisition date	2007
Share	PGNiG 11,92%
	BP Norge AS (operator) 23,84%
	E.ON Ruhrgas Norge AS 28,08%
	Statoil Petroleum AS 36,17%
Licence cost + CAPEX (PGNiG part)	USD 360 m + 800 m
Reserves of the licence (2P)	69 mboe
Water depth	350-450 m
Production planned	until 2029
Production forecast 2013	2,1 mboe (0,3 bcm) of natural gas
	2,3 mboe (0,3 m tonnes) of crude oil and NGL

#### Other licences (Norwegian Sea and Barents Sea)

Number of exploration licences	11_
herein at Norwegian Sea	9
Shares	From 15% up to 50%



## International E&P activities – Africa & Asia

#### **Egypt**



agreement	May 2009
shares	PGNiG SA 100%
area	4,414 km²
location	Western Desert oil province
obligations	1,350 km <sup>2</sup> of 2D seismic studies, 2 wells
estimated reserves	22 m tonnes of crude oil

Two wells drilled, both negative

Decision to withdraw from Egypt taken

#### Libya



agreement	Feb 2008
shares	PGNiG SA - 100%
area	5,494 km²
location	Awbari province, Murzuq Basin
obligations	3,000 km <sup>2</sup> of 2D, 1,500 km <sup>2</sup> of 3D, 8 wells
estimated reserves	146 bcm of nat gas; 15 m tonnes of condensate

4Q2013: asset write-off at PLN 420m and a provision for PLN 137m for future license obligations

#### **Pakistan**



agreement	May 2005
shares	PGNiG SA 70% Pakistan Petroleum 30%
area	956 km²
location	Province Sindh, Folded belt Kirthar
obligations	1 well, 100 km 2D (fulfilled)
estimated reserves	app. 11.6 bcm of nat gas

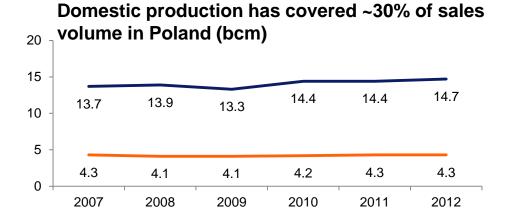
Test production started in June 2013; production at ca. 0.1 bcm annually

Assets under evaluation due to geopolitical constrains



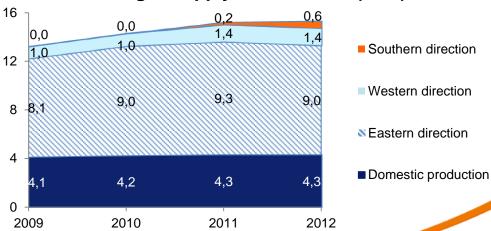
## Gas supply & sales

- Trade and Storage segment comprises:
  - sales of natural gas both imported and domestic to retail and wholesale markets
  - storage of gas.
- Market growth: CAGR +4% in 2007-2012
- App. 30% of Polish demand is met by domestic production – the rest is covered by imports.
- Contract for natural gas deliveries with Gazprom ("Yamal contract"):
  - Until 2022
  - 10 bcm annually
  - 85% Take-or-Pay
  - Change in price formula in 4Q2012 from 100% oil link to oil/spot mix
- Contract for LNG with Qatargas:
  - From 2014 until 2034
  - 1.3 bcm annually
  - 100% Take-or-Pay
- 1.4 bcm of gas sold by PGNiG Sales & Trading to customers outside of Poland in 2013



#### Sources of gas supply of PGNiG SA (bcm)

-Sales volume



Production volume in Poland



## **Gas transport routes**



#### **Assumptions for diversification:**

- To increase the level of security of supplies
- To avoid gas disruptions in gas supplies
- To decrease the dependency on one supply direction (59% from eastern direction in 2012)
- To enable higher import gas volumes (current entry points are overbooked and market is growing)
- To balance the sources of gas supply.



## Development of underground gas storage facilities

#### 2011-2012 2013-2014 2020 Extension of UGS Strachocina I phase of extension of UGS II phase of extension of UGS Wierzchowice (from 150 to 330 mcm) -Wierzchowice (from 0.58 to 1.2 (from 1.2 to 2 bcm) accomplished bcm) III phase of extension of CUGS Kosakowo (from 100 to 250 mcm) I and II phase of construction of (scheduled completion of the project: 2021) CUGS Kosakowo (50 - 100 mcm) II phase of extension of CUGS Mogilno I phase of extension of CUGS (from 535 to 800 mcm) KOSAKOWO Mogilno (from 378 to 535 mcm) (scheduled completion of the project: 2023) Extension of UGS Husów DASZEWO (from 350 to 500 mcm) Extension of UGS Brzeźnica (from 65 to 100 mcm) MOGILNO BONIKOWO Basic data Strategic gas reserves from 1st Oct. 2012 onward: Current no. of storage facilities 8 BRZEŹNICA - herein in salt caverns 30 days of daily average WERZCHOWICE HUSÓW import Current working capacity ca. 2 bcm **SWARZÓW** No. of storage facilities in 2015 **Existing UGS** 9 STRACHOCINA JGS in extension - herein in salt caverns UGS under contruction ca. 3 bcm 2015 target working capacity Current storage capacity meets



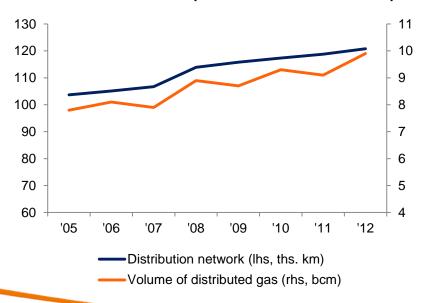
36 days

domestic winter demand for\*

## **Distribution**

- Gas Distibution Company supplies natural gas to households, industrial and wholesale customers, and is responsible for operation, maintenance and development of gas pipelines.
- In 2012 six Regional Gas Companies distributed
   9.9 bcm of natural gas to 6.7 m customers through
   121 ths km of distribution network.
- Mid-2013 six Regional Gas Companies were consolidated into one.

# Stable network's growth and increase of distributed volumes (+3.5% CAGR 2005-2012)



#### Stable EBITDA of the regulated segment



Coverage of gas distribution network





#### **Heat and Power Generation**

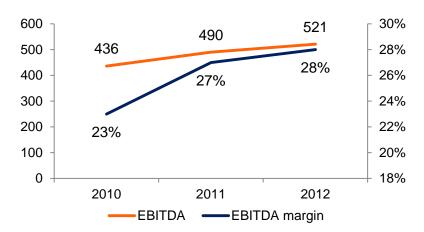
#### PGNiG Termika (2012)

- January 2012 acquisition of 99.8% stake of Vattenfall Heat Poland S.A. from Vattenfall AB for PLN 3 bn in cash (PLN 3.5 bn EV)
- The largest heat producer and 7th of electricity in Poland
- Over 23% of the total heat capacities installed in Poland and covering approx. 75% of the total heat demand in Warsaw
- Heat tariffs benchmarking scheme creates significant upside for profitability as PGNiG Termika produces low-cost heat
- 400 MW<sub>e</sub> gas-fired block is planned in Warsaw at Zeran plant (2018)
- 146 MWt biomass-fired boiler to be built in Warsaw at Siekierki plant (2015)

#### **CHP Stalowa Wola (2015)**

- 50/50 JV PGNiG & Tauron Polska Energia
  - Total capex PLN 1.6 bn (project finance)
  - PGNiG to supply 0.5 bcm of gas for 14 years
  - Agreement for Sale of Electricity, signed for 14 years (50% to PGNiG)
  - Total power output: 400 MW<sub>e</sub> and 240 MW<sub>t</sub>

#### **Growing EBITDA of PGNiG Termika\***



#### **PGNiG Termika operating data**

Installed heat power	4 782 MWt
Installed electric power	1 015 MWe
Heat sales in 2012	40.2 PJ
Produced electricity sales in 2012	3.7 TWh



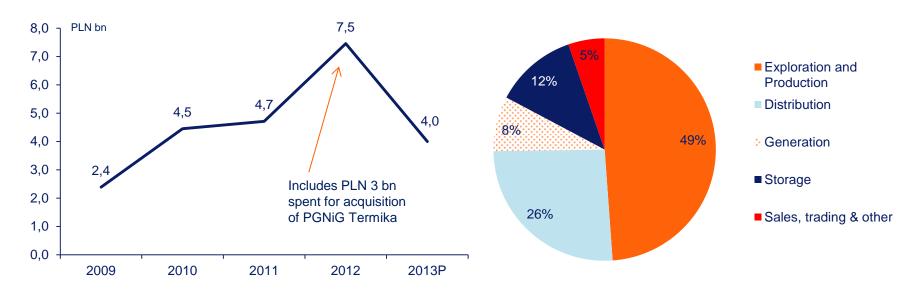
# Capex, Debt



## Capex estimate for the years 2011-2015: ~ PLN 27 bn

#### **Annual CAPEX 2009 – 2013 (plan)**

#### CAPEX split for 2013 (total PLN ~ 4.0 bn)





## Debt and sources of financing

#### Financing sources as at September 30th 2013 (m PLN)

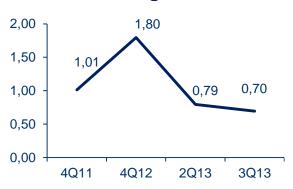


- Optimisation of financing sources
- Available financing programmes for PLN 12.4bn, including a guaranteed PLN 9.5bn
- Net debt / EBITDA <1</li>

#### Debt (m PLN)



#### **Net debt / trailing EBITDA**



Strong financial standing following dividend payments (paid in 10.2013)



#### Additional Information

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## **Key achievements of 1-3Q2013**

#### **Exploration and Production**

- Production of crude oil and condensate:
  - Total: 789,000 tonnes (5.8 mboe), including:
    - Norway: 189,000 tonnes (1.4 mboe), of which 109,000 tonnes in Q3 2013
    - LMG: 252,000 tonnes (1.85 mboe), of which 92,000 tonnes in Q3 2013
- 14 wells drilled in 1-3Q2013, including 3 exploratory shale gas wells (annual target: to spud 34 wells, including 13 exploratory shale gas wells)

#### **Trade and Storage**

- Gas sales volume 11.7 bcm (+12%) for 9M 2013 and 2.95 bcm (+17%) in Q3 2013 y/y
- Negative margin on sales of high-methane gas: -2% for 9M 2013 vs. -11% for 9M 2012
- Underground gas storage facilities fully utilised: 2.48 bcm of gas

#### **Finance**

- Revenue +15% y/y (PLN 23 bn vs 20.1 bn in 1-3Q2012)
- Net debt/EBITDA < 1</li>
- Dividend paid: PLN 767m (October)

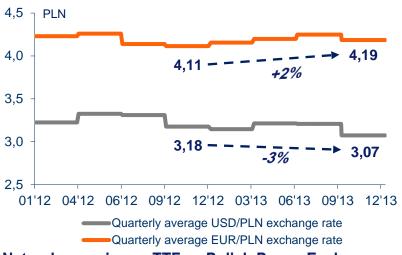
#### **Business environment**

- Crude prices, natural gas spot prices and exchange rates relatively stable
- Flat gas tariff since the end of December 2012, extended to Q4 2013

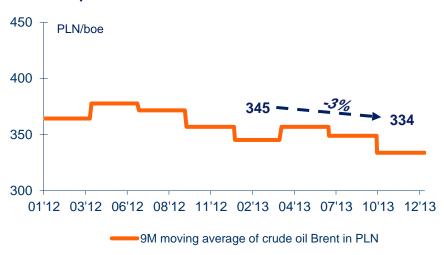


## Factors contributing to the financial result

#### Average USD/PLN and EUR/PLN exchange rates



#### **Crude oil prices**



#### Natural gas prices – TTF vs Polish Power Exchange



#### Tariff price for PGNiG natural gas



\*since 01.01.2014 the price of gas includes also costs of storage and part of transmission costs which both used to be covered by network charges

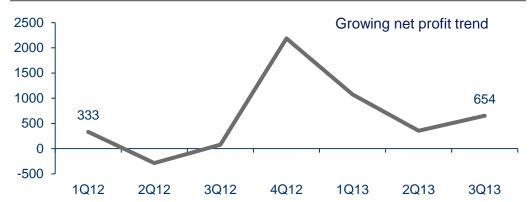


## **Key financial data 1-3Q2013**

(m PLN)	1-3Q2012	1-3Q2013	Δ%
Sales revenue	20 064	23 003	15%
Operating expenses (without D&A)	(20 043)	(19 948)	0%
EBITDA	1 528	4 808	215%
Depreciation and amortisation	(1 507)	(1 753)	16%
EBIT	21	3 055	x147
Financial result	(98)	(310)	217%
Net profit	122	2 082	x17



- High-methane gas: +PLN 1,611m
- Crude oil and condensate: +PLN 827m
- Electricity: +PLN 348m
- Heat: +PLN 96m
- Nitrogen-rich gas: +PLN 73m
- Drilling services: +PLN 42m



Marked improvement in performance, driven by a two-fold rise in crude sales



## **Segments – Exploration and Production**

(m PLN)	1-3Q2012	1-3Q2013	Δ%
Revenue	3 118	4 317	38%
Operating expenses (without D&A)	(1 364)	(1 393)	2%
EBITDA	1 754	2 924	67%
Depreciation and amortisation	(448)	(720)	61% •
EBIT	1 306	2 204	69%

- +PLN 827m revenue from sale of crude oil and condensate (+89% y/y)
- Crude sales volume up 100% (+352,000 tonnes) y/y
- Inter-segment sales of gas from the Skarv field to PGNiG Sales & Trading on the rise (241m cubic metres for 9M 2013)
- Effect of LMG: -PLN 63m and effect of Skarv:
   -PLN 176m for 9M 2013



High income as a result of increasing crude production

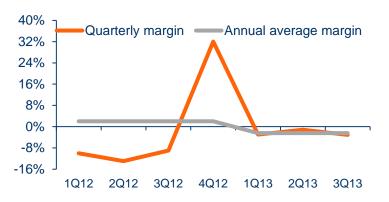


## **Segments – Trade and Storage (1)**

(m PLN)	1-3Q2012	1-3Q2013	Δ%
Revenue	16 552	18 672	13% •
Operating expenses (without D&A)	(18 220)	(18 434)	1%
EBITDA	(1 668)	238	-
Depreciation and amortisation	(107)	(131)	22%
EBIT	(1 775)	107	-

- Tariff price does not cover costs, but Group E gas margin improved from -11% to -2% YTD and from -9% to -3% in Q3
- PST's contribution: PLN 1.3bn in gas sales revenue, compared with PLN 135m for 9M 2012
- Electricity sales at PLN 659m in Q1-Q3 2013 vs. PLN 70m in Q1-Q3 2012
- Negative effect of foreign exchange differences and net loss on derivative instruments under other expenses lower by PLN 153m

#### Margin on high-metane gas (E)



#### **Quarterly EBITDA (m PLN)**



Group E gas margin improved, but still does not cover costs



## **Segments – Trade and Storage (2)**



and high inventory levels

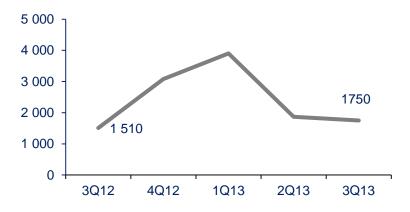


## **Segments – Distribution**

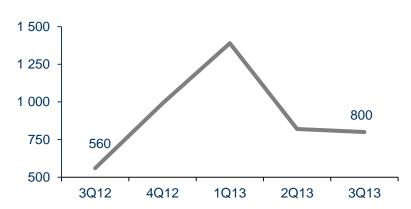
(m PLN)	1-3Q2012	1-3Q2013	Δ%
Revenue	2 546	3 136	23%
Operating expenses (without D&A)	(1 387)	(1 773)	28%
EBITDA	1 159	1 363	18%
Depreciation and amortisation	(605)	(636)	5%
EBIT	553	727	31%

- Revenue and cost increase following amendments to the Distribution and Transmission Grid Codes (neutral to operating profit/loss)
- Cost of transmission services for 9M 2013: PLN 445m (none in 2012)
- Y/Y increase in the volume of distributed gas, up 16% in Q3 2013 and 10% for 9M 2013

#### **Distribution volume (mcm)**



#### Revenue from distribution services (m PLN)



Steady & consistent improvement in performance

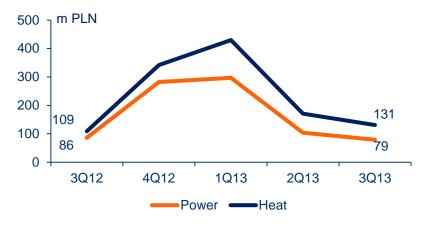


## **Segments – Generation**

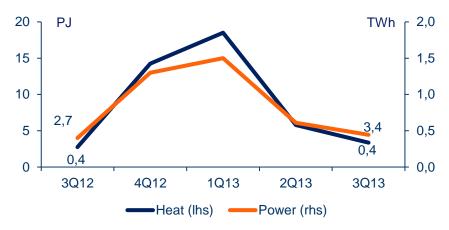
(m PLN)	1-3Q2012	1-3Q2013	Δ%
Revenue	1 354	1 445	7% (
Operating expenses (without D&A)	(1 053)	(1 098)	4% (
EBITDA	301	347	15%
Depreciation and amortisation	(334)	(250)	(25%)
EBIT	(33)	96	_ (

- 9% rise in the heat tariff as of July 2013
- Heat sales volume +23% in Q3 2013 (the coldest September in a decade)
- Drop in in biomass usage and its costs (-15m PLN in 1-3Q13 vs -54m in 1-3Q12)
- In 1-3Q2012, D&A was increased by 151m PLN due to amortisation of CO2 emission allowances recognised on the acquisition of PGNiG Termika's assets

# Revenue from sale of heat and electricity (produced by PGNiG Termika)



# Sales volume of heat and electricity (produced by PGNiG Termika)



Good result driven by strong sale volumes



## **Operating expenses**

m PLN)	1-3Q2012	1-3Q2013	Δ%
Cost of gas sold	(12 760)	(12 539)	(2%)
Other raw materials and consumables used	(632)	(933)	48%
Fuel for heat and power generation	(662)	(633)	(4%)
Employee benefits	(2 007)	(2 115)	5%
OGP GAZ-SYSTEM transmission services	(1 075)	(1 096)	2%
Cost of written-off dry wells	(62)	(88)	42%
Other contracted services	(1 049)	(1 041)	(1%)
Other operating expenses net	(937)	(414)	(56%)
exchange differences and derivatives	(263)	(120)	(54%)
taxes and surcharges	(511)	(485)	(5%)
Cost of services for own needs	647	664	3%
Operating expenses (without D&A)	(18 536)	(18 196)	(2%)
Depreciation and amortisation	(1 507)	(1 753)	16%
Total Operating expenses	(20 043)	(19 948)	0%

- Lower gas costs despite increased sales volume – thanks to the revised pricing formula under the Yamal contract, stable exchange rates, crude oil prices and gas spot prices
- Costs of electricity for trading at PLN 439m in Q1-Q3 2013 vs. PLN 71m in Q1-Q3 2012
- Lower biomass consumption and coal costs despite higher electricity and heat production volumes

Effect of LMG: -PLN 63m and effect of Skarv: -PLN 176m for 9M 2013

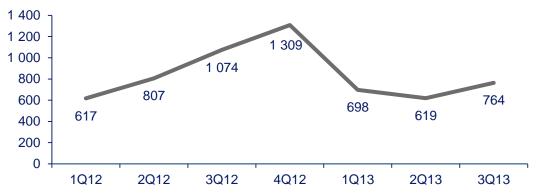
**Operating expenses under control** 



## Capital expenditure by business segments

(m PLN)	1-3Q2012	1-3Q2013	Δ%
Total	2 498	2 080	-17%
Exploration and Production	1 114	1 099	-1%
Trade and Storage	499	207	-59%
Distribution	686	675	-2%
Generation	170	88	-48% •—
Other	29	11	-62%

#### **Quarterly Capex of PGNiG Group (m PLN)**



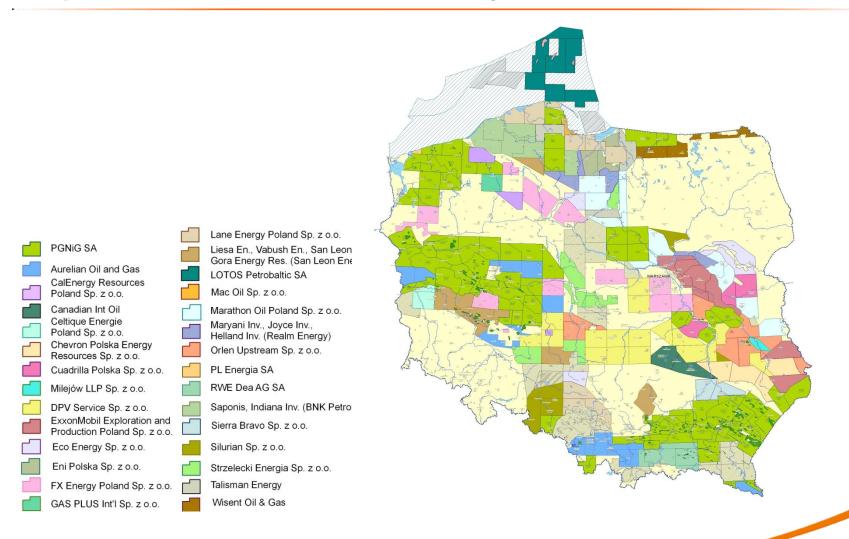
Capex at PLN 2.1bn in 1-3Q2013

- PMG Wierzchowice: scheduled technical acceptance in Q4 2013, final acceptance in Q1 2014
- KPMG Kosakowo: completed construction of two of the five planned chambers and technical acceptance of the surface section
- Q1 2012: construction of desulfurization and deNox units
- Contractor for the K1 biomass boiler at the Siekierki CHP Plant selected in Q3 2013
- Q3 2013: announcement of tenders for the design of a CCGT unit (450MWe, 300MWt) and an oil-gas boiler (390MWt) for the Żerań CHP plant
- Stalowa Wola CHP Plant status of technical work completion: 58% (work in Q3 2013 included construction of gas turbine foundations and completion of two of the four stages of work on a weir on the San river)



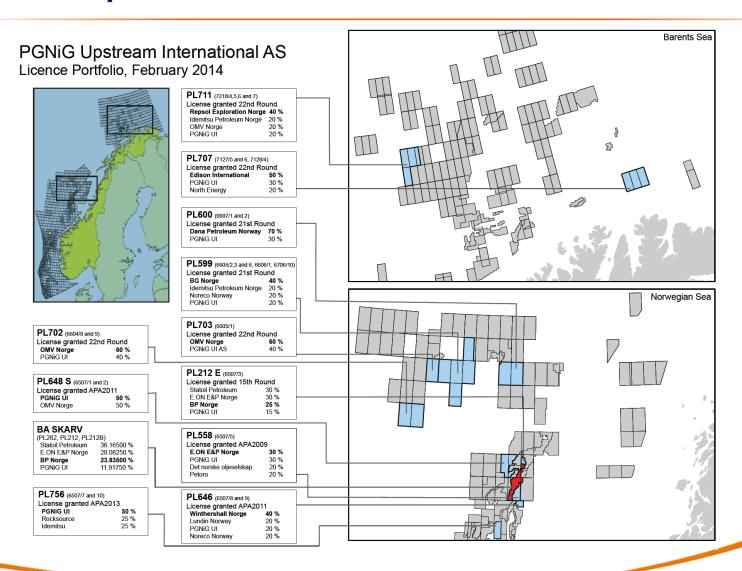


## **Exploration Concessions for Hydrocarbons in Poland**





## **PGNiG Upstream International AS – Licence Portfolio**





## **Production and sales volumes**

NATURAL GAS PRODUCTION	(mcm)												
	Q3 2013	Q2 2013	Q1 2013	FY 2012	Q4 2012	Q3 2012	Q2 2012	Q1 2012	FY 2011	Q4 2011	Q3 2011	Q2 2011	Q1 2011
HIGH-METHANE GAS (E)	481,2	483,5	442,7	1 607,5	403,2	396,5	400,6	407,2	1 616,4	409,1	400,3	400,9	406,1
NITROGEN-RICH GAS (Ls/Lw as E equiv.)	618,6	603,9	732,5	2 709,7	706,2	647,9	625,1	730,5	2 713,1	725,4	668,7	594,6	724,4
TOTAL (measured as E equivalent)	1 099,8	1 087,4	1 175,2	4 317,2	1 109,4	1 044,4	1 025,7	1 137,7	4 329,5	1 134,5	1 069,0	995,5	1 130,5
NATURAL GAS SALES of PGNiG Group	(mcm)												
	Q3 2013	Q2 2013	Q1 2013	FY 2012	Q4 2012	Q3 2012	Q2 2012	Q1 2012	FY 2011	Q4 2011	Q3 2011	Q2 2011	Q1 2011
HIGH-METHANE GAS (E)	2 731,4	2 964,5	5 177,7	13 756,4	4 070,1	2 315,2	2 698,2	4 672,9	13 166,8	3 871,4	2 320,7	2 588,5	4 386,2
NITROGEN-RICH GAS (Ls/Lw as E equiv.)	220,1	245,3	386,5	1 156,1	335,5	215,9	232,7	372,1	1 110,6	326,1	210,5	206,9	367,1
TOTAL (measured as E equivalent)	2 951,5	3 209,9	5 564,2	14 912,5	4 405,6	2 531,1	2 930,9	5 045,0	14 277,4	4 197,5	2 531,2	2 795,4	4 753,3
CRUDE OIL	(ths. ton)												
	Q3 2013	Q2 2013	Q1 2013	FY 2012	Q4 2012	Q3 2012	Q2 2012	Q1 2012	FY 2011	Q4 2011	Q3 2011	Q2 2011	Q1 2011
Production of crude oil and condensate	327,3	233,1	228,7	491,6	138,5	129,7	95,7	127,7	467,6	123,5	126,7	84,4	133,0
Sales of crude oil and condensate	255,1	242,9	206,6	484,6	132,4	129,3	96,0	126,9	466,8	124,1	124,0	89,5	129,2
PGNIG TERMIKA													
	Q3 2013	Q2 2013	Q1 2013	FY 2012	Q4 2012	Q3 2012	Q2 2012	Q1 2012	FY 2011	Q4 2011	Q3 2011	Q2 2011	Q1 2011
Production HEAT net (sales) (TJ)	3 367,4	5 765,6	18 511,4	40 213,9	14 242,0	2 747,7	5 503,2	17 721,0	38 660,2	13 317,2	2 789,3	5 199,7	17 354,0
Production POWER net (for sale) (GWh)	444,6	613,0	1 525,7	3 719,3	1 287,9	395,7	632,7	1 403,0	3 685,1	1 279,7	432,8	572,3	1 400,3

